





ENTERED

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/931,007A

DATE: 03/18/2002

TIME: 15:35:21

Input Set : A:\EP.txt

Output Set: N:\CRF3\03182002\1931007A.raw

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3 <110> APPLICANT: Aventis Pharma S.A.
      5 <120> TITLE OF INVENTION: SYSTEM FOR REGULATING IN VIVO THE EXPRESSION OF A TRANSGENE
BY
              CONDITIONAL INHIBITION
      8 <130> FILE REFERENCE: 03806.0512
C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/931,007A
C--> 10 <141> CURRENT FILING DATE: 2001-08-17
    10 <150> PRIOR APPLICATION NUMBER: FR 00/10730
     11 <151> PRIOR FILING DATE: 2000-08-18
     13 <150> PRIOR APPLICATION NUMBER: US 60/239,246
     14 <151> PRIOR FILING DATE: 2000-10-11
     16 <160> NUMBER OF SEQ ID NOS: 11
     18 <170> SOFTWARE: PatentIn version 3.0
     20 <210> SEQ ID NO: 1
     21 <211> LENGTH: 688
     22 <212> TYPE: PRT
     23 <213> ORGANISM: Homo sapiens
     25 <220> FEATURE:
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     27 <222> LOCATION: (1)..(688)
     28 <223> OTHER INFORMATION: Sequence for PPAR-gamma-2-gamma-2, a modified human PPAR-
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    29
              eroxisome Proliferator Activated Receptor-gamma)
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     40 Asp Thr Glu Met Pro Phe Trp Pro Thr Asn Phe Gly Ile Ser Ser Val
                                    40
     43 Asp Leu Ser Val Met Glu Asp His Ser His Ser Phe Asp Ile Lys Pro
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     46 Phe Thr Thr Val Asp Phe Ser Ser Ile Ser Thr Pro His Tyr Glu Asp
     49 Ile Pro Phe Thr Arg Thr Asp Pro Val Val Ala Asp Tyr Lys Tyr Asp
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    52 Leu Lys Leu Gln Glu Tyr Gln Ser Ala Ile Lys Val Glu Pro Ala Ser
    55 Pro Pro Tyr Tyr Ser Glu Lys Thr Gln Leu Tyr Asn Arg Asn Lys Cys
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                                    120
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                                                    140
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155

150

62 145

64 Ala Glu Ile Ser Ser Asp Ile Asp Gln Leu Asn Pro Glu Ser Ala Asp

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	T.eu	Arσ	Δla	T.e.11		Lys	Hic	T.e.u	Tvr		Ser	ጥvr	Tle	T.37 G		Dho
68	Lou	*** 9		180	1114	2,5	*****	LCu	185	шър	UCI	-1-		190	UCI	1110
	Pro	Len	Thr		Δla	Lys	Δla	Ara		Tle	Len	Thr	Glv		Thr	Thr
71	: 10	Lou	195	175	mu	LIS	u	200	mu	110	ДСС		205	цу	1111	1111
	Δsn	Lvs		Pro	Phe	Val	Tle		Δen	Mot	Δcn	Ser		Mo+	Mot	Glv
74	Кэр	210	561	110	rne		215	ı yı	кэр	Het		220	пси	Mec	мес	GIY
	Glu		T.v.c	Tla	T.vc	Phe		Hic	Tla	Thr			Gln	Clu	Gln	Sar
77	225	пор	цуз	110	цуз	230	цуs	1113	116	1111	235	БСи	GIII	Giu	GIII	240
		Glu	Va 1	λla	Tla	Arg	Tla	Dho	Gln.	Gl v		Gln	Dha	λrα	Car	
80	цуз	GIU	Vul	niu	245	arg	116	FILE	GIII	250	Cys	GIII	rne	лту	255	Val
	Glu	Δla	Va 1	Gln.		Ile	Thr	Glu	Ttrr		Tve	Sar	Tla	Dro		Dho
83	GIU	ALU	Val	260	GIU	116	1111	Giu	265	Ата	цуз	261	116	270	СТУ	FILE
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86	Val	VPII	275	тэр	Leu	ASII	vəb	280	vaı	1111	Leu	Deu	285	ıyı	СТА	Val
	иiс	Clu		T10	Tr.	Thr	Mo+		7 l n	Cor	T OU	Mo+		Tvc	λας	Clir
89	птэ	290	116	116	тут	1111	295	ьeu	міа	ser		300	ASII	гуъ	ASP	GIY
	Wa 1		т1 о	Cor	C111	Gly		C1	Dho	Mo+			Clu	Dho	T 011	Trra
	305	Leu	116	ser	GIU	310	GTII	СТА	Pile	Mec	315	Ary	GIU	Pne	Leu	дуS 320
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95	ser	ьеи	AIG	гуѕ	325	Pne	ату	ASP	Pile	330	GIU	PIO	пур	PHE	335	Pile
-	7 l n	Wa 1	Tvra	Dho		Ala	Lou	C1.,	T 011		N'an	C0.T	7 an	T 011		T10
98	АТа	var.	nys	340	MSII	нта	Leu	GIU	345	ASP	АБР	ser	ASP	350	нта	TTE
) Dhe	x T14	. λ1a		Tlo	Tla	LOU	Car		λan	λrσ	Dro	C1v		LTON	Asn
101		, 110	355		. 110	. 116	neu	360	-	пор	ALY	FIC	365		пец	ASII
		T.376			Glu	λαη	Tlo	-		λen	LOU	LOU			Tou	Glu
104		370		, IIĆ	GIU	. дэр	375		no-	MSI	пеп	380		ATO	пец	GIU
				T.vc	Lan	λen			C1.		_					
	, 100										· Car	ഭിമ	LON	Dho	. λ1 =	Tuc
		;			БСи				GIU	ser			Leu	Phe	e Ala	Lys
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109 110 112 113 115 116 118 121 122 124 125 127 128 130 131 133 134 136	7 385 Dec Dec Dec Dec Dec Dec Dec Dec Dec Dec	Leur Leur Gly 450 Leur Glr Leur Glr Glr Glr Glr Glr Glr Glr Glr Glr Gl	Leu 435 Lys Lys Met Glu Arg Pro 515 Tyr	Gln 420 Gln Thr Met Gln Gln Gln Gln Gln Gln Gln Gln	Met 405 Val Glu Thr Gly Ser 485 Val	390 Thr Ile Asp Glu 470 Lys Glu Val	Lys Tyr Lys 455 Asp Glu Ala Asn Glu 535 Leu	Lys Lys 440 Ser Lys Val Val Leu 520	Thr 425 Asp Pro Ile Ala Gln 505 Asp	Gln 410 Glu Leu Phe Lys Glu Glu Leu Tyr	395 Ile Thr Tyr Val Phe 475 Arg Ile Asn	Asp Ala Ile 460 Lys Ile Thr Asp Met 540 Gln	Thr Met Trp 445 Tyr His Phe Glu Gln 525 Leu	Ser 430 Ala Asp Ile Gln Tyr 510 Val	His 415 Leu Ile Met Thr 495 Ala	400 Val His Leu Asn Pro 480 Cys Lys

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139 Arg Glu Phe Leu Lys Ser Leu Arg Lys Pro Phe Gly Asp Phe Met Glu 140 565 570 142 Pro Lys Phe Glu Phe Ala Val Lys Phe Asn Ala Leu Glu Leu Asp Asp 143 585 580 145 Ser Asp Leu Ala Ile Phe Ile Ala Val Ile Ile Leu Ser Gly Asp Arg 595 600 148 Pro Gly Leu Leu Asn Val Lys Pro Ile Glu Asp Ile Gln Asp Asn Leu 615 620 151 Leu Gln Ala Leu Glu Leu Gln Leu Lys Leu Asn His Pro Glu Ser Ser 630 635 154 Gln Leu Phe Ala Lys Leu Leu Gln Lys Met Thr Asp Leu Arg Gln Ile 645 650 157 Val Thr Glu His Val Gln Leu Leu Gln Val Ile Lys Lys Thr Glu Thr 665 160 Asp Met Ser Leu His Pro Leu Leu Gln Glu Ile Tyr Lys Asp Leu Tyr 675 680 685 163 <210> SEQ ID NO: 2 164 <211> LENGTH: 19 165 <212> TYPE: DNA C--> 166 <213> ORGANISM: Artificial 168 <220> FEATURE: 169 <223> OTHER INFORMATION: PPAR binding site 171 <400> SEQUENCE: 2 172 tcaaccttta ccctggtag 19 175 <210> SEQ ID NO: 3 176 <211> LENGTH: 13 177 <212> TYPE: DNA C--> 178 <213> ORGANISM: Artificial 180 <220> FEATURE: 181 <223> OTHER INFORMATION: PPAR binding site 183 <400> SEQUENCE: 3 184 aggtcaaagg tca 13 187 <210> SEO ID NO: 4 188 <211> LENGTH: 30 189 <212> TYPE: DNA C--> 190 <213> ORGANISM: Artificial 192 <220> FEATURE: 193 <223> OTHER INFORMATION: primer 195 <400> SEQUENCE: 4 196 atgcatcgat ggccgcttcg agcagacatg 30 199 <210> SEQ ID NO: 5 200 <211> LENGTH: 39 201 <212> TYPE: DNA C--> 202 <213> ORGANISM: Artificial 204 <220> FEATURE: 205 <223> OTHER INFORMATION: primer 207 <400> SEQUENCE: 5 208 atgcgtcgac tctagccgat tttaccacat ttgtagagg 39 211 <210> SEQ ID NO: 6

RAW SEQUENCE LISTING DATE: 03/18/2002
PATENT APPLICATION: US/09/931,007A TIME: 15:35:21

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VERIFICATION SUMMARY

DATE: 03/18/2002 PATENT APPLICATION: US/09/931,007A TIME: 15:35:23

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L:10 M:270 C: Current Application Number differs, Replaced Current Application No $L{:}10$ $M{:}271$ $C{:}$ Current Filing Date differs, Replaced Current Filing Date L:26 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:1 L:166 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:2 L:178 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:3 L:190 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:4 L:202 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5 L:214 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:6 L:226 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:7 L:238 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:8 L:250 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:9 L:262 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:10 L:274 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:11